

## ABSTRACT OF THE DISCLOSURE

A processing device (200) includes three hardware extensions: a motion estimation extension 202, a pixel interpolation extension 204 and a DCT/iDCT extension 206. The hardware extensions perform functions which would

- 5 otherwise be highly processor intensive, resulting in high power consumption and/or low quality video/imaging processing. The processing device 200 could be used, for example, in a mobile videophone 150.